

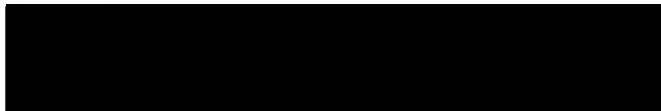


INSTITUTE FOR ANIMAL HEALTH
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath
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FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2011/00038

Sender Details:



Date Received: 8th September 2011

Country of Origin: Israel

Date Reported: 27th September 2011

Dear Dr. Boris Gelman,

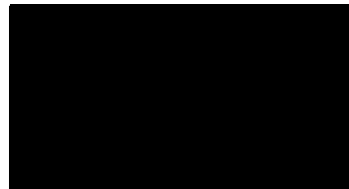
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

<http://www.wrlfmd.org/>

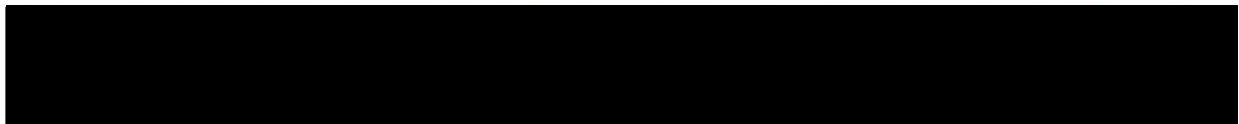
Results Approved By:



Official Stamp:



Date: 27/9/2011



A UKAS accredited testing laboratory No. 4025.

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.wilson@bbsrc.ac.uk). IAH actively seeks and appreciates feedback, if you would like to offer feedback please complete the WRLFMD survey here: <http://www.surveymonkey.com/s/WRLFMD>

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Report Date for this Batch: 26 September 2011

FMDV type O

Country: Israel

Period: 2011

No. of samples: 13

BATCH: WRLFMD/2011/00038



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/11/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 107110	
Location: Ramat Magshemim, Israel	Topotype: ME-SA
Date collected: 04/06/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-11.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/12/2011	ISR11-12	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/13/2011	ISR11-13	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/17/2011	ISR11-17	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/26/2011	ISR11-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/16/2011	ISR11-16	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/21/2011	ISR11-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/12/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 107112	
Location: Masada, Israel	Topotype: ME-SA
Date collected: 07/06/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-12.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/13/2011	ISR11-13	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/17/2011	ISR11-17	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/26/2011	ISR11-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/16/2011	ISR11-16	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/21/2011	ISR11-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/13/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 108405	
Location: Ramat Magshemim, Israel	Topotype: ME-SA
Date collected: 17/06/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-13.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/17/2011	ISR11-17	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/26/2011	ISR11-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/16/2011	ISR11-16	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/21/2011	ISR11-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/14/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 107745	
Location: Mu awiya, Israel	Topotype: ME-SA
Date collected: 18/06/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-14.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Sheep	No. of Nt determined: 639
Material used: M1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/16/2011	ISR11-16	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/21/2011	ISR11-21	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/23/2011	ISR11-23	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/24/2011	ISR11-24	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/6/2011	ISR11-06	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	567	0	88.73	11.27	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	567	0	88.73	11.27	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/15/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 108281	
Location: Kabul, Israel	Topotype: ME-SA
Date collected: 22/06/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-15.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Sheep	No. of Nt determined: 639
Material used: M1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/16/2011	ISR11-16	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/21/2011	ISR11-21	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/23/2011	ISR11-23	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/24/2011	ISR11-24	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/6/2011	ISR11-06	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/16/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 108426	
Location: Ben Ami, Israel	Topotype: ME-SA
Date collected: 22/06/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-16.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: M1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/21/2011	ISR11-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/17/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 109878	
Location: Shamir, Israel	Topotype: ME-SA
Date collected: 04/07/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-17.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: M1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/26/2011	ISR11-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/16/2011	ISR11-16	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/21/2011	ISR11-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/21/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 110771	
Location: Dalton, Israel	Topotype: ME-SA
Date collected: 15/07/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-21.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 22/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/16/2011	ISR11-16	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/22/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 110976	
Location: Laha votha-Bashan, Israel	Topotype: ME-SA
Date collected: 15/07/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-22.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 22/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/6/2011	ISR11-06	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/11/2011	ISR11-11	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/12/2011	ISR11-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/13/2011	ISR11-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/17/2011	ISR11-17	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/26/2011	ISR11-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/5/2011	ISR11-05	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/7/2011	ISR11-07	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/9/2011	ISR11-09	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/16/2011	ISR11-16	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: ISR/23/2011 Batch No: WRLFMD/2011/00038 Sender Ref: 111515 Location: Ortal, Israel Date collected: 20/07/2011 Date received by WRLFMD: 08/09/2011 Date received for sequencing: 19/09/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 26/09/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: ISR11-23.SEQ Date sequence last updated: 21/09/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3118 Min. no. of nt for comparison: 600 Total turn-around time: 18 days Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/16/2011	ISR11-16	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/21/2011	ISR11-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/24/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 116656	
Location: Mevo Hama, Israel	Topotype: ME-SA
Date collected: 21/07/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-24.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/16/2011	ISR11-16	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/21/2011	ISR11-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/23/2011	ISR11-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/25/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 112532	
Location: Mi ilia, Israel	Topotype: ME-SA
Date collected: 31/07/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-25.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: M1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/26/2011	ISR11-26	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/16/2011	ISR11-16	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/21/2011	ISR11-21	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/23/2011	ISR11-23	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/24/2011	ISR11-24	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/6/2011	ISR11-06	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	625	0	97.81	2.19	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 26/09/2011
WRLFMD Ref No: ISR/26/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00038	Checked by: D.P. King
Sender Ref: 112753	
Location: Yonatan, Israel	Topotype: ME-SA
Date collected: 31/07/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 08/09/2011	Sequence filename: ISR11-26.SEQ
Date received for sequencing: 19/09/2011	Date sequence last updated: 21/09/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3118
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 18 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/11/2011	ISR11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/ISR/12/2011	ISR11-12	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/13/2011	ISR11-13	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/17/2011	ISR11-17	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/16/2011	ISR11-16	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/21/2011	ISR11-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/23/2011	ISR11-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/24/2011	ISR11-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/6/2011	ISR11-06	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/8/2011	ISR11-08	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV O in Israel in 2011

Batch: WRLFMD/2011/00038

◆ indicates viruses in this batch

Software: MEGA 5.0

Analysis

Analysis ----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 26 September 2011

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